



## WARNING LETTER

Food and Drug Administration Rockville MD 20857

JAN 28 2005

Certified Mail
Return Receipt Requested

Reference No. 05-HFD-45-0101

Mark D. Gessler Chairman & CEO Gene Logic, Inc. 708 Quince Orchard Road Gaithersburg, MD 20878

Dear Mr. Gessler:

Between October 6 and 17, 2003, Charles M. Kerns, Michael F. Skelly, Ph.D., and CT Viswanathan, Ph.D., representing the Food and Drug Administration (FDA), inspected the following nonclinical laboratory studies conducted by your firm:

1.	Protocoljin	] entitled "28-Day Repeated Dose Toxicity and Efficacy o Rabbits," performed for
2.	Protocol [Bitartrate in [	] entitled "28-Day Oral Toxicity Study of Hydrocodone Dogs," performed for []

This inspection is part of FDA's Bioresearch Monitoring Program, which includes inspections designed to monitor the conduct of research, to ensure that the rights, safety, and welfare of the human subjects have been protected, and to verify compliance with Title 21 of the Code of Federal Regulations (CFR), Part 58. The regulation at 21 CFR Part 58 applies to nonclinical laboratory studies of products regulated by FDA.

At the conclusion of the inspection, Mr. Kerns and Dr. Skelly presented and discussed the items listed on Form FDA 483, Inspectional Observations. Following our review of the establishment inspection report and related documents, including your letter dated October 27, 2003, we conclude that you violated FDA regulations governing the conduct of nonclinical laboratory studies. This letter provides you with written notice of the violations. The applicable provisions of the CFR are cited for each violation.

1. Your testing facility management failed to assure that mixtures of test and control articles were appropriately tested for stability, strength, and uniformity. [21 CFR Part 58.31(d), 21 CFR 58.105(b), and 21 CFR 58.113]

lesting facility management failed to assure that the mixture of the test article	
and the control (the vehicle) were appropriately tested for strength, stability, and	-
uniformity. Specifically, stability was not determined for test articles in studies	Jand
and for control articles in study In addition, no tests were conduc	
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There was no record that the study director or the veterinary cardiologist analyzed and evaluated electrocardiograms (ECGs) for quantitative changes such as prolongation of the Q-T interval, or to assess the significance of elapsed time between dosing and ECG acquisition. The contributing scientist described the ECG records only as "WNL" (within normal limits). However, because the intervals between dosing and ECGs (from 18 minutes to 6 hours and 18 minutes) were not controlled, randomized, or consistent across dose and sex, it is unlikely that either maximal or cumulative effects of hydrocodone and its metabolites were captured. Contrary to your claim, you could not measure cumulative effects of the drug on ECGs in the presence of variable degrees of its acute effects.

4. The study director failed to assure that the protocol contain documentation indicating that the protocol had been approved by the sponsor.
[21 CFR 58.120(a)(11)]

For study	Jthere was no d	ocumentation that	the sponsor	_ !	
	approved	the protocol and a	mendments p	rior to initiation of the s	tudy.
The protocol and a	amendments were	e signed as approve	d by [_	Manager of	
Pharmacology/To:	xicology√	His name	and signatur	e on the protocol and th	e four
subsequent amend	lments to the prot	ocol are designated	as "Sponsor's	s Representative."	
				_	

5. The study director failed to assure that all raw data, documentation, protocols, specimens, and final reports were transferred to the archives during or at the close of the study. [21 CFR 58.33(f)]

For study \_\_\_\_\_\_ the project manager initialed the \_\_\_\_\_\_\_ Study Data Organization form on the line where the study director was to assure that the study records and specimens were transferred to the archives, following 21 CFR 58.33(f). No other documentation was available to assure that the study director transferred study records and specimens to the archives, or assured that the records and specimens were transferred to the archives. Your revised SOP \_\_\_\_\_\_ (Archiving Procedures) does not comply with 21 CFR 58.33(f), in that Section V.A. assigns responsibility for archiving study files to either the study director and/or project manager. This is solely a responsibility of the study director.

This letter is not intended to be an all-inclusive list of deficiencies at your facility. Your violations of the FDA regulations outlined above resulted in the submission of unreliable data to the sponsors, and the submission of unacceptable data to FDA. You must address these deficiencies and establish procedures to ensure that any on-going or future studies be conducted in compliance with FDA regulations.

Within 15 working days of receipt of this letter, you must notify this office in writing of the specific corrective actions you will take to address all of the deficiencies noted above and to achieve compliance with the FDA regulations. If corrective actions cannot be completed within 15 working days, you may request an extension of time in which to respond by stating the reason for the delay and the time within which the corrections will be completed. We will review your

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response and determine whether it is adequate. Failure to provide adequate assurances of compliance with FDA regulations may result in regulatory action without further notice.

Your reply should be sent to:

C.T. Viswanathan, Ph.D.
Associate Director, Bioequivalence
Chief, GLP & Bioequivalence Investigations Branch
Division of Scientific Investigations
Office of Medical Policy
Center for Drug Evaluation and Research
7520 Standish Place, Room 116, HFD-48
Rockville, MD 20855
Telephone: (301) 827-5460

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Joanne L. Rhoads, M.D., M.P.H.

Director

Sincerely

Division of Scientific Investigations

Office of Medical Policy

Center for Drug Evaluation and Research